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November 21, 2003

Our reference: 8395 WO - WEB

Color chamber doctor blades

Patent claims

1. Color chamber doctor blade (1)
 - with two doctor blade knives (2) that can be set up in roof-like fashion against a roller (6)
 - from which both the doctor blade knives (2) can be fixed on the doctor blade chamber body (5) by a clamping plate (3)
 - and the clamping plate (3) is in active connection with the long fasteners (4) stretching in the axial direction (z) of the roller (6),
 - which are arranged essentially parallel to the clamping plate (3)
 - and from which the force required for fixing at least one doctor blade knife (2) is applied

characterized in that

the resultant of the forces applied by the fasteners (4) points to the doctor blade chamber body (5).
2. Color chamber doctor blade (1) according to claim 1,

characterized in that

the clamping plate (3) is equipped with at least one specially shaped top piece (13), which forms an active connection with the long-stretch fasteners (4) in the axial direction (z) of the roller (6).

3. Color chamber doctor blade (1) according to one of the above claims,
characterized in that
 - the fasteners (4) are built with at least one inflatable hose,
 - the variation in the volume of which provides the force required for fixing the two doctor blade knives (2).
4. Color chamber doctor blade (1) according to one of the above claims,
characterized in that
 - the fasteners (4) are built with at least one rod (4),
 - through the movement of which relative to the color chamber doctor blade (1), the force required for fixing at least one doctor blade knife (2) can be provided.
5. Color chamber doctor blade (1) according to claim 4,
characterized in that
the relative movement of the rod (4) consists of a rotation around its principal axis of inertia.
6. Color chamber doctor blade (1) according to claim 5,
characterized in that
 - the rod (4) has an essentially round cross sectional area,
 - which has a recess (15) suitable for clamping the clamping plate (3) or its top piece (13).
7. Color chamber doctor blade (1) according to claim 6,
characterized in that
the rod (4) is fixed rotatably in the doctor blade chamber body (5).

8. Color chamber doctor blade (1) according to claim 7,
characterized in that
the top piece (13) has a joining element (14), which can be inserted into the recess (15) of the cross sectional area of the rod (4).
9. Color chamber doctor blade (1) according to claim 8,
characterized in that
the length of the top piece (13), the position of the joining element (14) on the top piece (13) and the positions of the rod (4) and the recess (15) are adjusted with each other in such a way
 - that the joining element (14) of the clamping plate (3) located outside the doctor blade chamber (8) can be inserted in a form-fitting manner into the recess (15) at the beginning of the process of fixing of the doctor blade knife and
 - that the rotation of the rod (4) required for fixing the doctor blade knife (2) conveys the joining element (14) and the clamping plate (3) into the position (a) suitable for fixing.
10. Process for the fixing of a doctor blade knife (2) of a color chamber doctor blade (1) according to one of the above claims.